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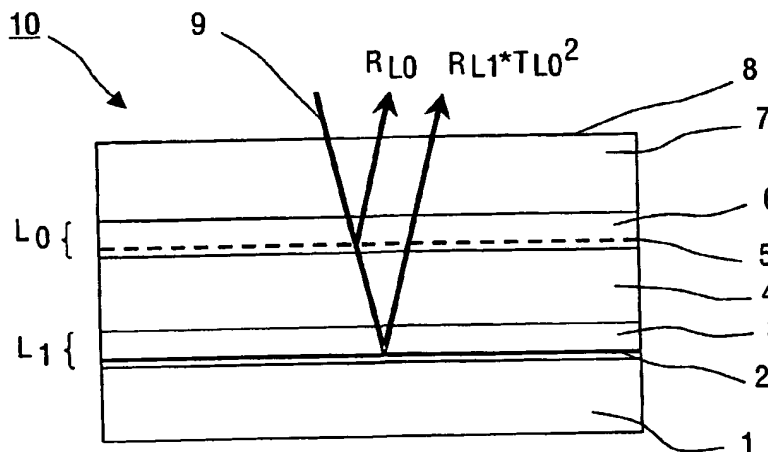
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- (71) **Applicant (for all designated States except US):** **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL];**
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **MARTENS, Hubert, C., F. [NL/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **TIEKE, Benno [DE/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **WOERLEE, Pierre, H. [NL/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **VAN DEN OETELAAR, Ronald, J., A. [NL/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven
- (NL). **KOPPERS, Wilhelmus, R. [NL/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) **Agent:** **UITTENBOGAARD, Frank;** Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
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- (54) Title: DUAL-STACK OPTICAL DATA STORAGE MEDIUM FOR WRITE ONCE RECORDING



(57) Abstract: A dual-stack optical data storage medium (10) for write-once recording using a focused radiation beam (9) having a wavelength λ of approximately 655 nm is described. The radiation beam enters through an entrance face (8) of the medium (10) during recording. The medium comprises at least one substrate (1, 7) with present on a side thereof: a first recording stack (6), named L0, comprising a write-once type L0 recording layer, said first recording stack L0 having an optical reflection value R_{L0} and an optical transmission value T_{L0} , a second recording stack (3), named L1, comprising a write-once type L1 recording layer, said second recording stack L1 having an effective optical reflection value $R_{L1\text{eff}}$. The first recording stack (6) is present at a position closer to the entrance face (8) than the second recording stack. (3). A transparent spacer layer (4) is sandwiched between the recording stacks (3, 6). The reflection values R_{L0} and $R_{L1\text{eff}}$ are within the following ranges: $0.12 \leq R_{L0} \leq 0.18$ and $0.12 \leq R_{L1\text{eff}} \leq 0.18$ by which an improved sensitivity of the dual stack medium is achieved.

**Declaration under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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